

2834

**PATENT APPLICATION**

RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Masahiro KATOH et al.

Application No.: 09/788,426

Filed: February 21, 2001

Docket No.: 111282

For: MULTI-LAYERED BRUSH OF ROTARY ELECTRIC MACHINE AND METHOD  
OF MANUFACTURING THE SAME

FEB 20 2002  
#5/Revoca  
P/a  
Hawkins  
3/21/02  
TECHNICAL CENTER 2800

**SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-identified application.

In the event of any nonpayment or improper payment of a required fee, the Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No. 15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff  
Registration No. 27,075

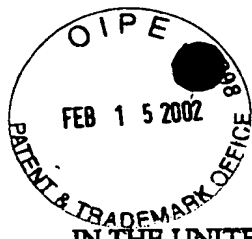
Thomas J. Pardini  
Registration No. 30,411

JAO:TJP/kaw

Date: February 15, 2002

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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**PATENT APPLICATION** RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEB 20 2002

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**POWER OF ATTORNEY BY ASSIGNEE**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following seven patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned:

<u>U.S. Patent Application No.</u>	<u>Filed</u>	<u>Inventors</u>
09/879,035	June 13, 2001	Hironao YAMAGUCHI
09/885,163	June 21, 2001	Keiji TAKAHASHI et al.
09/912,301	July 26, 2001	Nakato MURATA et al.
09/918,826	August 1, 2001	Masami NIIMI et al.
09/922,691	August 7, 2001	Tadatoshi ASADA
09/903,494	July 13, 2001	Naoto IWATA et al.
09/873,410	June 5, 2001	Shigenobu NAKAMURA

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this

application and all continuations and divisions thereof; and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;  
William P. Berridge, Registration No. 30,024;  
Kirk M. Hudson, Registration No. 27,562;  
Thomas J. Pardini, Registration No. 30,411;  
Edward P. Walker, Registration No. 31,450;  
Robert A. Miller, Registration No. 32,771;  
Mario A. Costantino, Registration No. 33,565;  
Stephen J. Roe, Registration No. 34,463;  
Joel S. Armstrong, Registration No. 36,430;  
Christopher W. Brown, Registration No. 38,025;  
Richard E. Rice, Registration No. 31,560; and  
Paul Tsou, Registration No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION  
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,  
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

February 14, 2002  
Date

Masashi Kamiya  
Signature

Typed Name: Masashi Kamiya

Title: General Manager

## APPENDIX A

<u>U.S. Patent Application Serial No.</u>	<u>Filed</u>	<u>Oliff &amp; Berridge, PLC Docket No.</u>	<u>Reel/Frame No.</u>
09/538,983	March 30, 2000	111267	010661/0135
09/758,169	January 12, 2001	111277	011460/0868
09/777,699	February 7, 2001	111281	011540/0141
09/788,426	February 21, 2001	111282	011558/0630
09/837,382.	April 19, 2001	111287	011706/0632
09/849,274	May 7, 2001	111290	011784/0710
09/878,247	June 12, 2001	111291	011900/0317
09/883,204	June 19, 2001	111293	011917/0398
09/883,205	June 19, 2001	111294	011916/0601
09/899,054	July 6, 2001	111297	011965/0421
09/935,695	August 24, 2001	111307	012120/0029
09/940,648	August 29, 2001	111310	012126/0801
09/940,797	August 29, 2001	111311	012126/0951
09/948,581	September 10, 2001	111313	012163/0692
09/949,753	September 12, 2001	111314	012163/0229
09/950,057	September 12, 2001	111315	012201/0554
09/808,364	March 15, 2001	111316	011612/0898
09/935,696	August 24, 2001	111318	012120/0318
09/599,422	June 22, 2000	111327	010896/0961
09/803,979	March 13, 2001	111332	011603/0287
09/960,735	September 24, 2001	111334	012206/0462

<u>U.S. Patent Application Serial No.</u>	<u>Filed</u>	<u>Oliff &amp; Berridge. PLC Docket No.</u>	<u>Reel/Frame No.</u>
09/521,604	March 9, 2000	111336	010631/0795
09/574,451	May 19, 2000	111337	010816/0493
09/891,349	June 27, 2001	111344	012241/0693
09/773,262	February 1, 2001	111348	012238/0216

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SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

**RECEIVED**

**1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):**

1. Hironao YAMAGUCHI

3.  
5.  
7.

2.  
4.  
6.  
8.

FEB 20 2002

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ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☐ NO

**2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:**

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

**3. NATURE OF CONVEYANCE (DOCUMENT):**

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: June 1, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 1, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	281387				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  Pillsbury Winthrop LLP Intellectual Property Group 1100 New York Avenue, NW Ninth Floor Washington, DC 20005-3918			6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1		
5.5 ATTY DKT:  P 281387			7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40		
MATTER NO.			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
CLIENT REF.			UNDER ORDER NO 30954 281387		
			dup. sheet not required CLIENT NO. MATTER NO.		

9.

*Paul Bowen*

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (202) 861-3014

Date: June 13, 2001

FAX: (202) 822-0944

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Washington, DC 20005-3918

USA Patent Appln.  
Sole or Joint

Inventions made outside USA  
executed with or after application  
Atty. Dkt. PW 56600-US-AK/nh  
M# Client Ref.

NONPROVISIONAL

ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Hironao YAMAGUCHI	(2)
(3)	(4)
(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION  
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

TRANSFORMER DEVICE, HIGH-VOLTAGE GENERATING APPARATUS  
HAVING THE SAME, AND LIGHTING SYSTEM HAVING THEM

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →  
(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No.

filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Hironao Yamaguchi  
Name: Hironao YAMAGUCHI

June 1, 2001

Yoshitake Sato

2)  
Name:

3)  
Name:

4)  
Name:

5)  
Name:

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## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Keiji TAKAHASHI  
3. Makoto TANIGUCHI

2. Toshinori MARUYAMA

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5.  
7.4.  
6.  
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

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☐ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: May 31, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) May 31, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

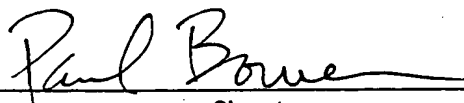
A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	281174				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Winthrop LLP  
Intellectual Property Group  
1600 Tysons Boulevard  
McLean, VA 221026. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 281174 56656-US-SuS/sm  
MATTER NO. CLIENT REF.8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975  
UNDER ORDER NO 30954 281174  
dup. sheet not required CLIENT NO. MATTER NO.

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Signature

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Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (703) 905-2020

Date: June 21, 2001

FAX: (703) 905-2500

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In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Keiji TAKAHASHI	(2) Toshinori MARUYAMA
	(3) Makoto TANIGUCHI	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	DENSO CORPORATION
	1-1 Showa-cho, Kariya-city
	Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

**VOLTAGE REGULATOR OF VEHICLE AC GENERATOR**

for which the undersigned executed an application for Letters Patents of the United States of America:

**NOTE → →**  
(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appl. No. / filed

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AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

**NOTE → →** The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

**INVENTORS**

**DATE SIGNED**

**WITNESSES**

1):	Keiji TAKAHASHI	May/31/2001	Hiroshi Ishida
Name:	Keiji TAKAHASHI		
2)	Toshinori Maruyama	May/31/2001	Hiroshi Ishida
Name:	Toshinori MARUYAMA		
3)	Makoto Taniguchi	May/31/2001	Hiroshi Ishida
Name:	Makoto TANIGUCHI		

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**1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):**

1. Nakato MURATA  
3. Tsutomu SHIGA  
5.  
7.

2. Yoshiki TAN  
4.  
6.  
8.

FEB 15 2002

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

**2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:**

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

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☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: (1 & 2) July 12, 2001 and  
(3) July 13, 2001

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4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	0282704				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard  McLean, VA 22102			6. NUMBER INVOLVED: APPLNS <u>1</u> + PATS <u>0</u> = TOTAL <u>1</u>		
5.5 ATTY DKT:  P 0282704                      57062-US-SuS/mk			7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40		
MATTER NO.			CLIENT REF.		
8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975			UNDER ORDER NO      030954      0282704		
dup. sheet not required			CLIENT NO.      MATTER NO.		

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Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: July 26, 2001

FAX: (703) 905-2500

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McLean VA 22102

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5706-05  
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executed with or after application

Atty. Dkt. PW

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Nakato Murata

(2) Yoshiki Tan

(3) Tsutomu Shiga

(4)

(5)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION

1-1, SHOWA-CHO, KARIYA-CITY, AICHI-PREF., 448-8661 JAPAN

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

BRUSH-LESS ROTARY ELECTRIC MACHINE HAVING STATOR COOLING ARRANGEMENT

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →

(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No. /

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AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1):  
Name: Nakato Murata  
2):  
Name: Yoshiki Tan  
3):  
Name: Tsutomu Shiga  
4):  
Name:  
5):  
Name:

DATE SIGNED

July 12, 2001  
July 12, 2001  
July 13, 2001

WITNESSES

Hiroshi Ishida  
Hiroshi Ishida  
Hiroshi Ishida

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**RECEIVED****1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):**

1. Masami NIIMI  
3. Masahiro KATOH  
5.  
7.

FEB 15 2002

2. Hideki ICHIKAWA

FEB 20 2002

4.  
6.  
8.

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ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO**2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:**

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO**3. NATURE OF CONVEYANCE (DOCUMENT):**(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

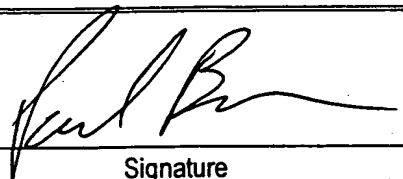
EXEC. DATE: (1) June 5, 2001  
(2) June 11, 2001  
(3) June 6, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) (1) June 5, 2001; (2) June 11, 2001; (3) June 6, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	0281512				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102			6. NUMBER INVOLVED: APPLNS <u>1</u> + PATS <u>0</u> = TOTAL <u>1</u>		
5.5 ATTY DKT:  P 0281512			7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40		
MATTER NO.			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
CLIENT REF.			UNDER ORDER NO 030954 0281512		
			dup. sheet not required CLIENT NO. MATTER NO.		

9.



Signature

10. Total number of pages including this  
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2

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: August 1, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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1100 New York Avenue, NW  
Ninth Floor  
Washington, DC 20005-3918

USA Patent Appln.  
Sole or Joint

For Inventions made outside USA  
executed with or after application

Atty. Dkt. PW

57168-US-  
MRB/nh

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Masami NIIMI	(2) Hideki ICHIKAWA
(3) Masahiro KATOH	(4)
(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION  
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

METHOD OF FABRICATING BRUSHES

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →  
(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No. 1 filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Masami Niimi  
Name: Masami NIIMI  
2) Hideki Ichikawa  
Name: Hideki ICHIKAWA  
3) Masahiro Katoh  
Name: Masahiro KATOH  
4) \_\_\_\_\_  
Name: \_\_\_\_\_  
5) \_\_\_\_\_  
Name: \_\_\_\_\_

DATE SIGNED

June 5, 2001  
June 11, 2001  
June 6, 2001  
\_\_\_\_\_  
\_\_\_\_\_

WITNESSES

Shinji Usami  
Kenji Ogishima  
Shinji Usami  
\_\_\_\_\_  
\_\_\_\_\_

**RECORDATION FORM COVER SHEET  
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FEB 20 2002

TECHNOLOGY CENTER 2800

**1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):**

1. Tadatoshi ASADA

2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

**2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:**

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

**3. NATURE OF CONVEYANCE (DOCUMENT):**

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: July 2, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) July 2, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series: code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
NEW APPLICATION	0282680				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102			6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1		
7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
5.5 ATTY DKT:  P 0282680			UNDER ORDER NO 030954		
MATTER NO.			CLIENT REF. 57174-US-SuS/nh		
			dup. sheet not required		
			CLIENT NO.		
			MATTER NO.		

9.

*Paul Bowen*  
Signature

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Attorney: Paul T. Bowen

Reg. No. 38009

Date: August 7, 2001

Atty/Sec: PTB/tel

TEL: (703) 905-2020

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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USA Patent Appln.  
Sole or Joint

For Inventions made outside USA  
executed with or after application

Atty. Dkt. PW

57174-US-  
SuS/nh

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Tadatoshi ASADA

(2)

(3)

(4)

(5)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION

1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →  
(Complete  
line A, B and/or C)

(A) ☒ even date herewith  
(B) ☐ on \_\_\_\_\_  
(C) ☐ in U.S. Appln. No. \_\_\_\_\_ / \_\_\_\_\_ filed \_\_\_\_\_

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Tadatoshi Asada  
Name: Tadatoshi ASADA

DATE SIGNED

July 2, 2001

WITNESSES

Shiroshi Ishida

2)

Name:

3)

Name:

4)

Name:

5)

Name:

RECORDATION FORM COVER SHEET  
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TECHNOLOGY CENTER 2800

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Naoto IWATA  
3. Masahiko NATUME  
5. Nobuhiko NAGAI  
7. Kunihiro KODAMA

2. Masayoshi FUJITA  
4. Yoshiaki MIZUNO  
6. Mitsutoshi MIYAZAKI  
8. Toshiiji KONDOU

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Denso Corporation

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☐ ORIGINAL ☒ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: 27 and 28 May 1998

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
Div. of 09/092,646	281099				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP  
Intellectual Property Group  
1600 Tysons Boulevard

McLean, VA 22102

5.5 ATTY DKT:

P 281099

U3-9812-YK-B

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO	60388	281099
dup. sheet not required	CLIENT NO.	MATTER NO.

9.



Signature

Attorney: Kenneth M. Fagin

Reg. No. 37,615

Atty/Sec: KMF/ml

TEL: (703) 905-2066

Date: July 13, 2001

FAX: (703) 905-2500

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NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1)	Naoto IWATA	(4)	Yoshiaki MIZUNO
(2)	Masayoshi FUJITA	(5)	Nobuhiko NAGAI
(3)	Masahiko NATUME	<input checked="" type="checkbox"/> x box if continued on page 2	

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION

of 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

IMPROVED METHOD FOR MACHINING SLOTS IN MOLDING DIE

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE -->  
(Complete  
line A, B and/or C)

(A) ☒ even date herewith

(B) ☒ on May 27 and 28, 1998

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE --> The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Suto, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTOR(S)	DATE SIGNED	WITNESSES
1)	<u>Naoto Iwata</u>	<u>27-May-98</u>	<u>Junichi Iio</u>
Name:	Naoto Iwata		
2)	<u>Masayoshi Fujita</u>	<u>28-May-98</u>	<u>Keiji Sakai</u>
Name:	Masayoshi Fujita		
3)	<u>Masahiko Natume</u>	<u>28-May-98</u>	<u>Keiji Sakai</u>
Name:	Masahiko Natume		
4)	<u>Yoshiaki Mizuno</u>	<u>28-May-98</u>	<u>Junichi Iio</u>
Name:	Yoshiaki Mizuno		
5)	<u>Nobuhiko Nagai</u>	<u>27-May-98</u>	<u>Yoshitaka Kuroda</u>
Name:	Nobuhiko Nagai		

IF ADDITIONAL INVENTORS, check box ☒ and continue on page 2.

# **ASSIGNMENT** (Continued from page 1)

## LISTING OF ADDITIONAL INVENTORS

INSERT  
NAME(S) OF  
INVENTOR(S)

(6)	Mitsutoshi MIYAZAKI	(11)
(7)	Kunihiro KODAMA	(12)
(8)	Toshiji KONDOU	(13)
(9)		(14)
(10)		(15)

## SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

	<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
6)	<u>Mitsutoshi Miyazaki</u>	<u>27-May-98</u>	<u>Hisashi Kayano</u>
Name:	Mitsutoshi Miyazaki		
7)	<u>Kunihiro Kodama</u>	<u>27-May-98</u>	<u>Hisashi Kayano</u>
Name:	Kunihiro Kodama		
8)	<u>Toshiji Kondou</u>	<u>28-May-98</u>	<u>Keiji Sakai</u>
Name:	Toshiji Kondou		
9)	_____	_____	_____
Name:			
10)	_____	_____	_____
Name:			
11)	_____	_____	_____
Name:			
12)	_____	_____	_____
Name:			
13)	_____	_____	_____
Name:			
14)	_____	_____	_____
Name:			
15)	_____	_____	_____
Name:			

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TECHNOLOGY CENTER 2800

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Shigenobu NAKAMURA

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF☒ WHOLE☐ PART INTEREST☒ ORIGINAL☐ FACSIMILE/PHOTOCOPY☐ CHANGE OF NAME☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER☐ OTHER:

EXEC. DATE: August 30, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 30, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
09/873,410	281269				

5. Name &amp; Address of Party to Whom Correspondence Concerning Document Should be Mailed:

 Pillsbury Winthrop LLP  
 Intellectual Property Group  
 1600 Tysons Boulevard McLean, VA 22102  
 Tel: (703) 905-2000

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO 30954 281269

dup. sheet not required CLIENT NO. MATTER NO.

MATTER NO.

CLIENT REF.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

 10. Total number of pages including this  
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Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/vaw

TEL: (703) 905-2020

Date: October 1, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

Please return signed/recorded to:

Pillsbury Winthrop LLP

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McLean, Virginia 22102

USA Patent Appln.  
Sole or Joint

For Inventions made outside USA  
executed with or after application

Atty. Dkt. PW

56021-US-  
SuS/nh

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT  
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Shigenobu NAKAMURA

(2)

(3)

(4)

(5)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

DENSO CORPORATION

1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF  
INVENTION

BRUSHLESS AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →

(Complete

line A, B and/or C)

(A) ☐ even date herewith

(B) ☒ on June 5, 2001

(C) ☐ in U.S. Appln. No. \_\_\_\_\_

filed \_\_\_\_\_

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

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NOTE → →

The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Shigenobu Nakamura  
Name: Shigenobu NAKAMURA

August 30, 2001

Hiroshi Ishida

2): \_\_\_\_\_  
Name: \_\_\_\_\_

3): \_\_\_\_\_  
Name: \_\_\_\_\_

4): \_\_\_\_\_  
Name: \_\_\_\_\_

5): \_\_\_\_\_  
Name: \_\_\_\_\_